

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) The system of claim 27 8, further comprising:
 - a transmitter associated with the processing section and configured to transmit the data relating to the downhole condition to the surface.
2. (Currently Amended) ~~The system of claim 8~~ A system for detecting a downhole condition in a wellbore during a non-drilling wellbore operation, the system comprising:
 - a tool string formed of a tubular to be disposed within the wellbore;
 - wherein the workpiece comprises a fishing device configured to be conveyed into the wellbore using the tool string;
 - at least one sensor along the tool string for sensing the downhole condition, the condition sensing tool configured to be conveyed into the wellbore with the fishing device using the tool string; and
 - a processing section for receiving data relating to the downhole condition.
3. (Withdrawn) The system of claim 1 wherein the workpiece comprises a cutting tool.
4. (Withdrawn) The system of claim 3 wherein the cutting tool comprises an underreamer.
5. (Withdrawn) The system of claim 3 wherein the cutting tool comprises a casing cutter.
6. (Currently Amended) The system of claim 8 wherein the downhole condition is a condition from the set consisting ~~essentially~~ of torque, weight, tool string compression, tool string tension, speed of tool string rotation, vibration, and direction of tool string rotation.

7. (Previously Presented) The system of claim 8, further comprising a controller positioned at the surface that is configured to control the workpiece.
8. (Currently Amended) A system for detecting a downhole condition in a wellbore during a non-drilling wellbore operation, the system comprising:
 - a tool string formed of a tubular to be disposed within the wellbore;
 - a workpiece configured to be conveyed into the wellbore using the tool string, the workpiece configured to perform the non-drilling wellbore operation within the wellbore;
 - at least one sensor along a condition sensing tool within the tool string for sensing the downhole condition, the at least one sensor being condition sensing tool configured to be conveyed into the wellbore with the workpiece using the tool string, wherein the condition sensing tool comprises:
 - ~~an outer housing defining a sensor section therein; and at least one sensor retained within the sensor section for detection of the downhole condition; and~~
 - a processing section for receiving data relating to the downhole condition ~~and transmitting the data to a remote receiver; and~~
 - a transmitter associated with the processing section and configured to transmit the data relating to the downhole condition to the surface, wherein the transmitter uses mud pulse telemetry.
9. (Cancelled)
10. (currently amended) The system of claim 27 9, further comprising a power section.
11. (cancelled)
12. (Previously Presented) A condition sensing tool for use within a wellbore during a non-drilling operation to detect at least one downhole condition within the

wellbore, the condition sensing tool being deployable via a tubular tool string and comprising:

- an outer housing defining an axial fluid flowbore therethrough and being coupled to the tubular tool string;

- a sensor section formed in the housing; and

- at least one sensor in the sensor section for detecting the at least one non drilling downhole condition from the set of conditions consisting essentially of torque, weight, tool string compression, tool string tension, speed of tool string rotation, vibration, and direction of tool string rotation, wherein the outer housing, the sensor section, and the at least one sensor are configured to be conveyed into the wellbore with the tubular tool string; and

- a power section within the housing for supplying power to the sensor section.

13. (Previously Presented) A condition sensing tool for use within a wellbore during a non-drilling operation to detect at least one downhole condition within the wellbore, the condition sensing tool being deployable via a tubular tool string and comprising:

- an outer housing defining an axial fluid flowbore therethrough and being coupled to the tubular tool string;

- a sensor section formed in the housing; and

- at least one sensor in the sensor section for detecting the at least one non drilling downhole condition from the set of conditions consisting essentially of torque, weight, tool string compression, tool string tension, speed of tool string rotation, vibration, and direction of tool string rotation, wherein the outer housing, the sensor section, and the at least one sensor are configured to be conveyed into the wellbore with the tubular tool string; and

- a processing section for receiving data relating to the downhole condition and transmitting the data to a remote receiver.

14. (Previously Presented) The method of claim 16, further comprising:
transmitting information indicative of the downhole condition to a surface location.

15. (Previously presented) The method of claim 14 further comprising the step of adjusting the non-drilling operation after receiving the transmitted information indicative of the downhole condition.
16. (Currently Amended) A method of performing a non-drilling downhole wellbore operation comprising:
- integrating a workpiece and a condition sensing tool into a tool string;
 - disposing the tool string into a wellbore;
 - actuating the workpiece to conduct a non-drilling downhole operation;
 - detecting at least one downhole condition with the condition sensing tool while operating the workpiece; ~~and~~
 - receiving data ~~storing information~~ indicative of the at least one downhole condition within a processing section of the condition sensing tool; and
 - transmitting the data to the surface using mud pulse telemetry.
17. (Previously Presented) A method of performing a non-drilling downhole wellbore operation comprising:
- integrating a workpiece and a condition sensing tool into a tool string;
 - disposing the tool string into a wellbore;
 - actuating the workpiece to conduct a non-drilling downhole operation;
 - detecting at least one downhole condition with the condition sensing tool; and
 - wherein
 - a) the workpiece comprises a fishing tool for engaging a stuck member within the wellbore;
 - b) the non-drilling downhole operation comprises a fishing operation to remove a stuck member from the wellbore; and
 - c) the condition sensing tool detects weight and torque.
18. (Previously Presented) A method of performing a non-drilling downhole wellbore operation, comprising:
- integrating a workpiece and a condition sensing tool into a tool string formed of a

tubular;

conveying the workpiece and the condition sensing tool into a wellbore using the tool string formed of the tubular;

actuating the workpiece to conduct a non-drilling downhole operation;

detecting at least one downhole condition with the condition sensing tool; and

transmitting information indicative of the downhole condition to a surface location, wherein:

- a) the workpiece comprises an anchor latch;
- b) the non-drilling downhole operation comprises unthreading of a threaded connection within the wellbore; and
- c) the condition sensing tool detects tool string compression and tool string tension.

19. (Withdrawn) The method of claim 14 wherein:

- a) the workpiece comprises a casing cutter;
- b) the non-drilling downhole operation comprises a casing cutting operation, and
- c) the condition sensing tool detects speed and direction of rotation of the tool string.

20. (Withdrawn) The method of claim 14 wherein:

- a) the workpiece comprises an underreamer;
- b) the non-drilling downhole operation comprises an underreaming operation, and
- c) the condition-sensing tool detects torque.

21. (Withdrawn) The method of claim 20 wherein the condition sensing tool also detects weight, speed of rotation, and direction of rotation.

22. (Previously Presented) A method of performing a non-drilling downhole wellbore operation comprising:

integrating a workpiece and a condition sensing tool into a tool string;
disposing the tool string into a wellbore;
actuating the workpiece to conduct a non-drilling downhole operation;
detecting at least one downhole condition with the condition sensing tool; and
wherein:

- a) the workpiece comprises a packer;
- b) the non-drilling downhole operation comprises retrieval of the packer from a set position within the wellbore; and
- c) the condition-sensing tool detects torque and weight.

23. (Withdrawn) The method of claim 14 wherein:

- a) the workpiece comprises a pilot mill;
- b) the non-drilling downhole operation comprises milling away by the pilot mill of a portion of a tubular member within the wellbore; and
- c) the condition sensing tool detects at least some of the downhole conditions from the set of conditions consisting essentially of torque, direction of rotation, speed of rotation, weight, tool string compression, and tool string tension.

24. (Withdrawn) The method of claim 14 wherein:

- a) the workpiece comprises a washover tool;
- b) the non-drilling downhole operation comprises a washover operation for cutting away portions of a formation surrounding a stuck object within the wellbore; and
- c) the condition sensing tool detects torque.

25. (Withdrawn) The method of claim 24 wherein the condition sensing tool further detects speed and direction of rotation.

26. (Previously presented) The system of claim 1, wherein the transmitter uses mud pulse telemetry.

27. (Currently Amended) ~~The system of claim 8~~ A system for detecting a downhole condition in a wellbore during a non-drilling wellbore operation, the system comprising:

a tool string formed of a tubular to be disposed within the wellbore, wherein the tool string is configured to rotate;

a workpiece configured to be conveyed into the wellbore using the tool string, the workpiece configured to perform the non-drilling wellbore operation within the wellbore;

at least one sensor along the tool string for sensing the downhole condition, the condition sensing tool configured to be conveyed into the wellbore with the workpiece using the tool string; and

a processing section for receiving data relating to the downhole condition.

28-33. (Cancelled)

34. (new) A method of performing a non-drilling downhole wellbore operation comprising:

- integrating a workpiece and a condition sensing tool into a tool string;
- disposing the tool string into a wellbore;
- actuating the workpiece to conduct a non-drilling downhole operation;
- detecting at least one downhole condition with the condition sensing tool while operating the workpiece;
- receiving data relating to the at least one downhole condition within a processing section of the condition sensing tool; and
- rotating the tool string.